

What is claimed is:

1. A control apparatus for a hybrid vehicle comprising a driving power source composed of an engine and a motor, wherein fuel supply to the engine is stopped by a fuel supply stop device during deceleration, and the motor regenerates regenerative power during deceleration depending on the deceleration state, wherein

5 said engine is a type of engine capable of executing cylinders deactivated operation for at least one cylinder; and the control apparatus comprises;

a cylinder deactivated operation determination device for determining whether it is appropriate for said engine to enter a cylinders deactivated operation depending on the driving conditions of the vehicle,

10 a cylinder deactivated operation execution device for executing the all cylinders deactivated operation of said engine when the all cylinders deactivated operation is determined by said cylinder deactivated operation determination device, and

when fuel supply to the engine is stopped by said fuel supply stop device during deceleration, the cylinders are deactivated based on said cylinder deactivated operation
15 determination device and said cylinder deactivated operation execution device.

2. A control apparatus for a hybrid vehicle according to claim 1, wherein the control apparatus further comprises a cylinder deactivated operation detecting devices for detecting operation or non-operation of said cylinder deactivated operation execution device, and

5 when said cylinder deactivated operation determination device determines that the cylinder deactivated operation is released, and said cylinder deactivated operation detecting device detects an inoperative state of said cylinder deactivated operation

execution device, fuel supply stop to the engine by said fuel supply stop device is released.

10

3. A control apparatus for a hybrid vehicle according to claim 1, wherein said cylinder deactivated operation execution device closes both the intake valves and exhaust valves of the cylinders.

4. A control apparatus for a hybrid vehicle according to claim 2, wherein when fuel supply is restarted by releasing the fuel supply stop to the engine by said fuel supply stop device, the fuel supply is gradually increased by a predetermined amount depending on the throttle opening.

5. A control apparatus of a hybrid vehicle according to claim 1, wherein said cylinders deactivated operation includes all cylinders deactivated operation.